In the Claims:

Please cancel claims 2-5, replace claim 1, and add new claims 6-31, all as shown below.

1. (Currently Amended): A system for providing the ability to edit source code, comprising:

one or more compilers, wherein the compilers support mixing and nesting of languages

within a source file;

means for providing an extensible multi-language capable compiler framework,

wherein the compiler framework provides a language-independent source code editor with

information about the source file, comprising: signatures of classes defined by the source file, errors

found in the source file, stack of nested languages at any point in the source file, and information

exposed by any languages; and

means for embedding the framework in a the language-independent source code editor,

wherein the language-independent source code editor communicates to the compiler framework

using language-independent metadata. such that the compiler framework can provide the editor with

information about a language to be edited.

2-5. (Canceled)

6. (New): The system of claim 1, wherein integrating a new language does not require separate

instructions to enable compiling or editing of the new language.

7. (New): The system of claim 1, wherein the language-independent source code editor

displays errors for mismatched start and end XML tags embedded in the source code and performs

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auto-completion of XML tags embedded in the source code.

8. (New): The system of claim 7, wherein the language-independent source code editor

displays errors and performs auto-completion independent of the host language embedding XML

tags.

9. (New): The system of claim 1, wherein the language-independent source code editor

provides syntax coloring and code completion for editing JWS annotations.

10 (New): The system of claim 1, wherein the compiler framework makes it possible to reparse

in near real-time with no performance degradation noticeable to the user.

11. (New): The system of claim 1, wherein the compiler framework enables the language-

independent source code editor to provide visual indication of errors throughout a source file with

mixed languages.

12. (New): The system of claim 1, wherein the compiler framework keeps track of errors in

source files in a project so that a user can have a list of errors in opened and unopened source code

files in a project.

13. (New): The system of claim 1, wherein the compiler framework has error correction in

code-generation, permitting users to run their code even if there is an error in it.

14. (New): The system of claim 1, wherein the compiler framework allows an outer language

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compiler to pass off processing of a section of a document to an inner language compiler.

15. (New): The system of claim 14, wherein a parse tree produced by the inner compiler is

available to the outer compiler.

16. (New): The system of claim 15, wherein either the inner compiler or the outer compiler can

determine where the span of the inner compiler's language content ends.

17. (New): The system of claim 1, wherein the compiler framework includes a parser generator

and a scanner generator.

18. (New): The system of claim 17, wherein generated parsers are able to recover from all

single token errors and missing identifiers that occur during code completion.

19. (New): The system of claim 1, wherein the compiler framework provides the source code

editor with names of classes and packages in a project and errors found in any source files in a

project.

20. (New): The system of claim 19, wherein after the compiler framework is notified of a

change to a file, the information about the file is updated within a time limit for a single-file

recompile.

21. (New): The system of claim 20, wherein after the file is recompiled, the compiler

framework provides the source code editor with a list of changes that occurred to the file

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information.

22. (New): The system of claim 1, wherein the compiler framework includes a project compiler,

wherein the project compiler contains a list of source directories and the class path and maintains a

type cache which contains Java signatures for classes in a project.

23. (New): The system of claim 22, wherein the type cache is indexed by file name and by class

name, and maintains a current list of errors and a list of dependencies.

24. (New): The system of claim 23, wherein the project compiler and the type cache are

serializable.

25. (New): The system of claim 1, wherein a file compiler is used to perform compilation of a

single source file.

26. (New): The system of claim 25, wherein the file compiler supports interoperation of

different languages by using a common intermediate language.

27. (New): The system of claim 26, wherein the common intermediate language is Java.

28. (New): The system of claim 25, wherein the file compiler remembers where the language

nesting occurs for reuse on subsequent parses.

29. (New): The system of claim 28, wherein the outer language implements a name resolution - 5 -

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interface to allow the inner language to resolve references to names defined outside of the nested

language.

30. (New): The system of claim 1, wherein all parsing is performed on background threads.

31: (New): The system of claim 1, wherein a thread pool allows compilation of multiple files to

be performed in parallel.

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